

What is claimed is:

1. A digital device for inputting data from the other specific digital device to a physical plug and outputting data from a physical plug to the other specific digital device by using a channel of a bus interface,
5 which comprising:

configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

10 channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information.

2. A digital device according to claim 1, which comprising:

15 the configuration information further including priority information of physical plugs judged from the aspect of each channel of a bus interface; and

channel switching means, in case of the competition for the channels of the bus interface, switching the channel to a physical plug
20 with the highest priority among physical plugs in competition by referring to the configuration information.

3. A digital device for controlling by a physical plug to output data from a physical plug to the other specific digital device by using a
25 channel of a bus interface, wherein, in case of outputting data having the same type of format from a plural physical plug, the data output having the same type of format is to be controlled by a logical plug.

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4. ~~A digital device according to either one of claim 1 to 3, wherein
the data is synchronous stream one.~~

5 5. ~~A digital device according to either one of claim 1 to 3, wherein
the bus interface is compliant with the standard of IEEE1394.~~

6. A data input-output control method of a digital device for
inputting data from the other specific digital device to a physical plug
and outputting data from a physical plug to the other specific digital
device by using a channel of a bus interface, which comprising a step of:

registering as configuration information at least connection
information between a channel of a bus interface and a physical plug,
and priority information of channels of a bus interface judged from the
aspect of each physical plug; and

selecting a channel with the highest priority among channels
of a bus interface connected with a specific physical plug by referring to
the configuration information.

7. A data input-output control method of a digital device
according to claim 6, which comprising a further step of:

registering as configuration information priority information
of physical plugs judged from the aspect of each channel of a bus
interface; and

in case of the competition for the channels of a bus interface,
switching the channel to a physical plug with the highest priority among

the physical plugs in competition by referring to the configuration information.

8. A data input-output control method of a digital device for
controlling by a physical plug to output the data from a physical plug to
the other specific digital device by using a channel of a bus interface,
wherein, in case of outputting data having the same type of format from
a plural physical plug, the data output having the same type of format is
to be controlled by a logical plug.

9. Configuration information for implementing a data input-
output control function of a digital device for inputting data from the
other specific digital device to a physical plug and outputting data from a
physical plug to the other specific digital device by using a channel of a
bus interface, which comprising at least connection information between
a channel of a bus interface and a physical plug, and priority information
of channels of a bus interface judged from the aspect of each physical
plug.

10. Configuration information according to claim 9, which further
comprising priority information of physical plugs judged from the aspect
of each channel of a bus interface.

11. A data input-output control system for controlling to input and
output data between a specific digital device and the other specific
digital device connected through a bus interface, which comprising:

configuration information including connection information between a channel of a bus interface and a physical plug, and priority information of channels of a bus interface judged from the aspect of each physical plug; and

5 channel selecting means selecting a channel with the highest priority among channels of a bus interface connected with the specific physical plug by referring to the configuration information.

12. A data input-output control system according to claim 11,
10 which further comprising:

the configuration information including priority information of physical plugs judged from the aspect of each channel of a bus interface; and

15 channel switching means switching, in case of the competition for channels of a bus interface, the channel to a physical plug having the highest priority among physical plugs in competition by referring to the configuration information.

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